BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the work:-Comprehensive development of Roads and Drains in Ward no 16 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(01)

Rate Analysis-1

PWD SR 2018-19

Sl No	Description of work	Unit	Data	I No	P No	Basic Rate	AW 4%	Sub Total	TP+4.95%	Grand Total
1	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per the direction of Engineer in charge	Cum		74.1	254	4557.81	455.78	5013.59	248.17	5261.76
2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs, with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200, including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm complete as per the direction of Engineer in charge	Sqm		37.59.2	271	7292.14	729.21	8021.35	397.06	8418.41
3	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification, MORTH Specification No.1600 & 2200 TMT Bars Fe 500 complete as per the direction of Engineer in charge	Sqm		28.8.2	229	68233	6823.30	75056.30	3715.29	78771.59
4	Providing and Fixing RCC Precast Cover Slab of 250 mm Thick for Drains in Cement Concrete M-20 using graded granite jelly of 20 mm and down size with steel Reinforcement, including form work lift charges, curing and concrete finished surface on both sides etc., complete as per the direction of Engineer in charge	Sqm	Data Rate			5418	325.08	5743.08	284.28	6027.36
3	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete,-wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications	Cum		18.18	139	557	55.70	612.70	30.33	643.03
3	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges,retaining walls and other structure comprising of masonry, cement concrete,wood work, steel work, including T&P and scaffolding wherever necessary,sorting the dismantled material, disposal of unserviceable material andstacking the serviceable material with all lifts complete as per specifications,iii) Dismantling Stone Masonry.MORTH Specification No. 202	Cum		18.27	140	351	35.10	386.10	19.11	405.21

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					Unit	Rate	Reference
	Cement Rate upto 21-10-2019				Per Bag	245.31	Page no V- Sl no 123 Code no 0084
	Cement Rate As on 01-01-2021 (Issue rate)				Per Bag	349.00	KPWD 4th quarter issue rate
	Difference in cement cost				Per Bag	103.69	
Sl No	Item	Sl no	Unit	Rate	Cement consumption In KG	Cement consumption in Bag	Difference Cement cost	New Rate As per new issue rate
	PCC							
1	PCC 1:2:4	4.1	Cum	5283.00	240	4.80	497.71	**5780.71**
2	PCC 1:3:6	4.2	Cum	5194.00	220	4.40	456.24	**5650.24**
3	PCC 1:3:6	4.3	Cum	5102.00	180	3.60	373.28	**5475.28**
4	PCC 1:3:6	4.4	Cum	5015.00	160	3.20	331.81	**5346.81**
4	PCC 1:2:4	4.5	Cum	5328.00	160	3.20	331.81	**5659.81**
5	PCC 1:3:6	4.7	Cum	5309.00	220	4.40	456.24	**5765.24**
5	PCC 1: 2:4 @ 300	4.5	Cum	5328.00	280	5.60	580.66	**5908.66**
6	PCC 1: 2:4 @ 240	4.6	Cum	5422.00	240	4.80	497.71	**5919.71**
7	PCC 1: 5:10 @150	22.1.2	Cum	3665.00	150	3.00	311.07	**3976.07**
7	PCC 1: 3 : 6 @150	34.1	Cum	4226.00	160	3.20	331.81	**4557.81**
							0.00	
	RCC						0.00	
1	RCC M25 with OPC 340 Kg footing	4.10	Cum	5812.00	340	6.8	705.09	**6517.09**
2	RCC M20 with OPC 320 Kg footing	4.11	Cum	5659.00	320	6.4	663.62	**6322.62**
3	RCC M25 with OPC 340 Kg Roof slab	4.12	Cum	6045.00	340	6.8	705.09	**6750.09**
4	RCC M20 with OPC 320 Kg Roof slab	4.13	Cum	5892.00	320	6.4	663.62	**6555.62**
5	RCC M20 for Chajja	4.19	Sqmt	440.00	24	0.48	49.77	**489.77**
6	RCC M20 for Chajja	4.20	Sqmt	496.00	27.2	0.544	56.41	**552.41**
7	RMC M20	4.49.1	Cum	5444.00	320	6.4	663.62	**6107.62**
8	RMC M25	4.49.2	Cum	5497.00	340	6.8	705.09	**6202.09**
9	RMC M30	4.49.3	Cum	5598.00	360	7.2	746.57	**6344.57**
10	RMC M35	4.49.4	Cum	5804.00	390	7.8	808.78	**6612.78**
11	RMC M40	4.49.5	Cum	6009.00	420	8.4	871.00	**6880.00**
12	RCC Loft	4.56	Sqm	420.00	30	0.6	62.21	**482.21**
13	RCC M30	4.49.2	Cum	5497.00	340	6.8	705.09	**6202.09**
13	RCC M30	26.5.10	Cum	6003.00	360	7.2	746.57	**6749.57**
13	RCC M25	27.31	Cum	4995.00	340	6.8	705.09	**5700.09**
14	RCC	22.2.2	Cum	5518.00	420	8.4	871.00	**6389.00**
							0.00	

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Sl No	Item	Sl no	Unit	Rate	Cement consumption		Difference Cement cost	New Rate As per new issue rate
					In KG	In Bag		
	Stone Work						0.00	
1	SSm @ foundation in C M 1:8	5.5	Cum	4494.00	62.7	1.254	130.03	4624.03
2	SSm @ foundation in C M 1:6	5.6	Cum	4596.00	82.5	1.65	171.09	4767.09
3	SSm @ basement in C M 1:6	5.9	Cum	5483.00	82.5	1.65	171.09	5654.09
4	SSm in Super Structure in C M 1:6	5.12	Cum	5784.00	70	1.4	145.17	5929.17
5	SSm in Super Structure in C M 1:4	5.13	Cum	6005.00	106.4	2.128	220.65	6225.65
							0.00	
6	Load bearing Solid Block Masonary - 4N /mm2						0.00	
	400 x200x 200 mm	5.26.1	Sqm	962.00	7.38	0.1476	15.30	977.30
	400 x150x 200 mm	5.26.2	Sqm	962.00	7.38	0.1476	15.30	977.30
7	Load bearing Solid Block Masonary - 5N /mm2						0.00	
	400 x200x 200 mm	5.27.1	Sqm	912.00	7.38	0.1476	15.30	927.30
	400 x150x 200 mm	5.27.2	Sqm	953.00	7.36	0.1472	15.26	968.26
8	Non Load bearing 400x 100x200	5.28	Sqm	811.00	4.09	0.0818	8.48	819.48
							0.00	
	Brick Work						0.00	
1	Brick work - 5.0 Newton/ Sqmm						0.00	
	with CM 1:8	6.5	Cum	6600.00	45.6	0.912	94.57	6694.57
	with CM 1:6	6.6	Cum	6709.00	60	1.2	124.43	6833.43
	with CM 1:4	6.7	Cum	6899.00	91.2	1.824	189.13	7088.13
							0.00	
2	Brick work - 7.5 Newton/ Sqmm - wire cut brick						0.00	
	with CM 1:8	6.5	Cum	9698.00	45.6	0.912	94.57	9792.56528
	with CM 1:6	6.6	Cum	9785.00	80	1.6	165.90	9950.90
	with CM 1:4	6.7	Cum	9975.00	91.2	1.824	189.13	10164.13
							0.00	
3	Brick work - 5.0 Newton/ Sqmm -Table mould brick						0.00	
	with CM 1:8	6.16	Cum	6805.00	39.9	0.798	82.74	6887.74462
	with CM 1:6	6.17	Cum	6881.00	52.5	1.05	108.87	6989.87
	with CM 1:4	6.18	Cum	7047.00	79.8	1.596	165.49	7212.49
							0.00	
4	Partation wall in C M 1:4						0.00	
	with 3.5 n/mm2	6.23	Sqm	838.00	9.12	0.1824	18.91	856.913056
	with 5.0 n/mm2	6.24	Sqm	920.00	9.12	0.1824	18.91	938.91
							0.00	

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Sl No	Item	Sl no	Unit	Rate	Cement consumption		Difference	New Rate As per
					In KG	In Bag	Cement cost	new issue rate
	Flooring						0.00	
1	Flooring fine dressed stone	14.4	Sqm	3241.00		0.165	17.11	3258.11
							0.00	
2	Ceramic tiles 30x 30x6 flooring	14.36.2	Sqm	1210.00		0.19	19.70	1229.70
3	Ceramic tiles 30x 60x6 - Dodoing	14.41.2	Sqm	1632.00		0.18	18.66	1650.66
4	Ceramic tiles 30x 45x6 - Dodoing	14.41.3	Sqm	1275.00		0.18	18.66	1293.66
	Pointing						0.00	
1	20 mm deep ruled pointing						0.00	
	with CM 1:3	15.8	Sqm	46.00		0.180	18.66	64.66
							0.00	
	Plastering						0.00	
1	12 mm thick single coat brick work						0.00	
	with CM 1:3	15.21	Sqm	235.00		0.110	11.41	246.41
	with CM 1:4 - ceiling	15.22	Sqm	225.00		0.098	10.16	235.16
							0.00	
2	15 mm thick single coat						0.00	
	with CM 1:3	15.12	Sqm	234.00		0.14	14.52	248.52
	with CM 1:4	15.13	Sqm	221.00		0.11	11.41	232.41
	with CM 1:6	15.14	Sqm	208.00		0.08	8.30	216.30
							0.00	
3	18 mm thick single coat						0.00	
	with CM 1:3	15.15	Sqm	276.00		0.16	16.59	292.59
	with CM 1:4	15.16	Sqm	261.00		0.13	13.48	274.48
	with CM 1:6	15.17	Sqm	245.00		0.09	9.33	254.33
							0.00	
							0.00	
4	15 mm thick Rough coatcoat						0.00	
	with CM 1:4	15.30	Sqm	205.00		0.125	12.96	217.96
	with CM 1:6	15.31	Sqm	192.00		0.08	8.30	200.30
							0.00	
5	20 mm thick single coat						0.00	
	with CM 1:3	15.18	Sqm	289.00		0.22	22.81	311.81
	with CM 1:4	15.19	Sqm	271.00		0.16	16.59	287.59

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